## WHAT IS CLAIMED IS:

1. A file system protection method used in a computer having a volatile storage and a non-volatile storage, and means for simultaneously executing a plurality of operating systems, said method comprising steps of:

copying by a first OS, files to be used by a second OS and stored on said non-volatile storage, onto said volatile storage; and

using said copied files to execute said second OS, thereby starting an OS from a file system in a predetermined state each time said system is restarted.

- 2. The file system protection method as claimed in Claim 1, wherein an OS not having a non-volatile storage stores a file by communicating with an OS having a volatile storage.
- 3. The file system protection method as claimed in Claim 1, wherein said second OS of said computer has a communication device, and when an OS on an external computer having a communication device and a non-volatile storage exchange a file with said second OS via said communication devices, said second OS stores the file on said non-volatile storage of said external computer.
- 4. The file system protection method as claimed in Claim 1, wherein said first OS and said second OS have communication devices which are connected to each

other by a communication line, and when exchanging a file via the communication devices, said second OS stores the file on said non-volatile storage of said first OS.

- 5. The file system protection method as claimed in Claim 1, wherein when said first OS and said second OS exchange a file by communication via said means for simultaneously executing a plurality of OS, the second OS stores the file on said non-volatile storage of said first OS.
- A file system protection apparatus used in a computer having a volatile storage and a non-volatile storage, and means for simultaneously executing a plurality of operating systems, said apparatus comprising:

means for copying by a first OS, files to be used by a second OS on said non-volatile storage, onto said volatile storage; and

means for using the copied files to execute said second OS, thereby starting an OS from a file system in a predetermined state each time said system is re-started.

7. A storage medium having a program for executing a file system protection method used in a computer having a volatile storage and a non-volatile storage, and means for simultaneously executing a plurality of operating systems, wherein said medium is readable by a computer and said method comprises steps

of:

copying, by a first OS, files to be used by a second OS on said non-volatile storage, onto said volatile storage; and

using the copied files to execute said second OS, thereby starting an OS from a file system in a predetermined state each time said system is restarted.